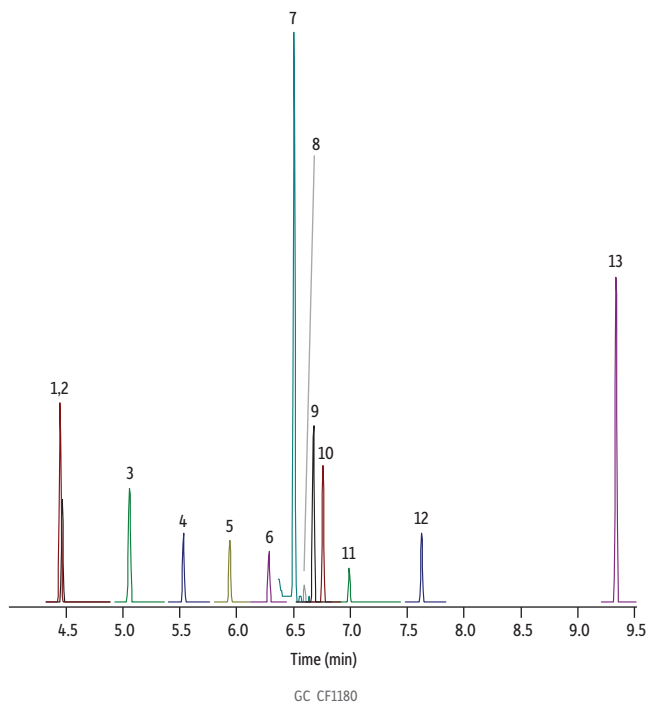


Nitrosamines on Rxi-624Sil MS



Peaks	tr (min)	Conc. (ng/mL)	Precursor Ion	Product Ion	Collision Energy	Confirmation Precursor Ion	Confirmation Product Ion	Collision Energy
1. <i>N</i> -Nitrosodimethylamine (NDMA)	4.48	120	74	42	18	74	43	12
2. <i>N</i> -Nitrosodimethylamine-d6 (NDMA-d6)	4.48	150	80	46	15	80	48	10
3. <i>N</i> -Nitrosomethylethylamine (NMEA)	5.08	120	88	42	16	88	43	8
4. <i>N</i> -Nitrosodiethylamine (NDEA)	5.56	120	102	44	12	102	56	14
5. <i>N</i> -Nitrosoethylisopropylamine (NEIPA)	5.96	120	116	44	12	116	99	6
6. <i>N</i> -Nitroso-diisopropylamine (NDIPA)	6.31	128	130	71	12	130	88	6
7. Methylaniline (NMPA)	6.53	131	107	77	26	106	77	14
8. <i>N</i> -Nitroso-di- <i>n</i> -propylamine (NDPA)	6.62	120	130	85	8	130	113	6
9. <i>N</i> -Nitrosomorpholine (NMOR)	6.71	120	116	56	10	116	86	6
10. <i>N</i> -Nitrosopyrrolidine (NPYR)	6.79	120	100	55	6	100	68	8
11. <i>N</i> -Nitrosopiperidine (NPIP)	7.02	120	114	69	6	114	84	8
12. <i>N</i> -Nitrosodi- <i>n</i> -butylamine (NDBA)	7.65	120	158	99	8	116	99	6
13. Phenylbenzenamine (NDPHA)	9.36	120	169	66	22	168	139	36

Column Rxi-624SilMS, 30 m, 0.25 mm ID, 1.4 µm (cat.# 13868)

Sample Nitrosamine calibration mix, Method 521 (cat.# 31898)
N-Nitrosodimethylamine-d6 (cat.# 33910)
N-Nitrosodiphenylamine (cat.# 31429)
N-Nitroso-methylphenylamine
N-Nitroso-diisopropylamine
N-Nitrosoethylisopropylamine
N-Nitrosomorpholine
Methanol

Diluent:

Injection

Inj. Vol.: 1 µL split (split ratio 10:1)

Liner: Topaz 4.0 mm ID straight inlet liner w/ wool (cat.# 23444)

Inj. Temp.: 280 °C

Oven

Oven Temp.: 40 °C (hold 0.5 min) to 320 °C at 30 °C/min (hold 7 min)

Carrier Gas

Carrier Gas: He, constant flow

Flow Rate: 1.2 mL/min

Detector

Mode: MS

Mode: SIM

Transfer Line Temp.: 280 °C

Analyzer Type: Quadrupole

Source Temp.: 325 °C

Instrument Notes

Thermo Scientific TSQ 8000 Triple Quadrupole GC-MS
For *N*-nitroso-methylphenylamine (NMPA) and *N*-nitrosodiphenylamine (NDPHA), the nitroso groups are cleaved in the inlet to form methylaniline and phenylbenzenamine, respectively.